

[About](#)[Products](#)[EE Programs](#)[Partners](#)[Approved Labs](#)[Library](#)[Registered User Login](#)

Success with solid-state lighting

LED Lighting Facts® is a program of the U.S. [Department](#) of Energy that showcases LED products for [general](#) illumination from [manufacturers](#) who commit to testing products and reporting performance results according to industry standards.



Information For:

[Manufacturers](#)[Retailers and Distributors](#)[Energy Efficiency Sponsors](#)[Approved Labs](#)[Lighting Pros](#)[Consumers](#)[Federal Users](#)

NOT A PARTNER? **TAKE THE PLEDGE TODAY!**

Products

LED lighting products that have received an LED Lighting Facts label, including verified performance information.

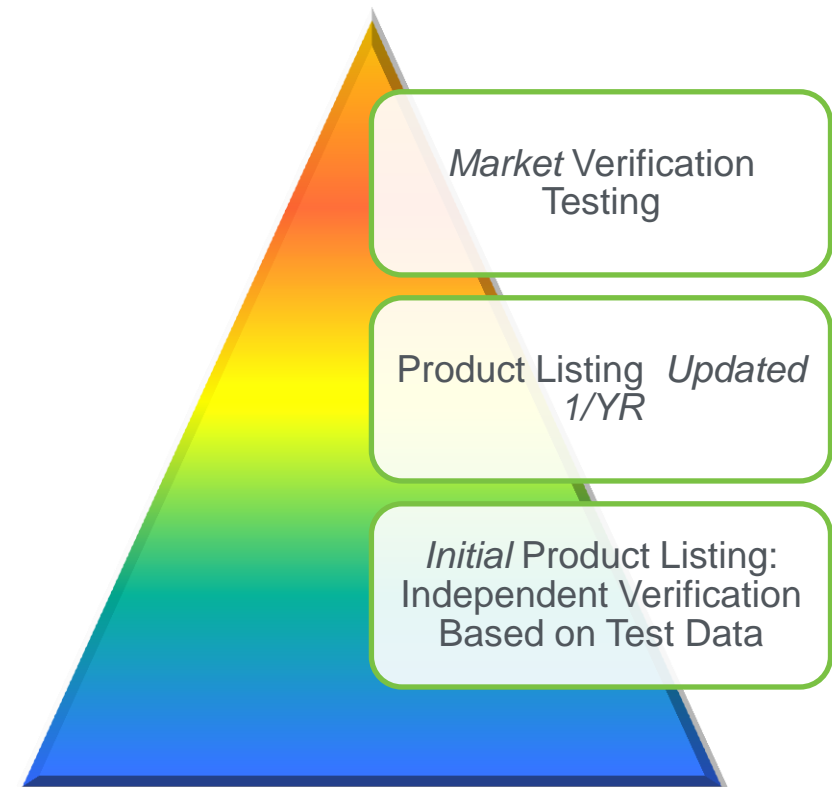
[Search Products](#)

40674
TOTAL PRODUCTS

[ADVANCED SEARCH](#)

- Performance data is independently verified before it is listed
 - Verification testing and annual verification of product availability used to maintain data integrity
- Using industry standardized test reports *from accredited labs* for photometry, reliability and thermal management for products and components (LM-79, LM-80 and ISTMT)
- Requirements align with other regional/national programs to avoid duplication and reduce costs

- Built-in Levels of Confidence



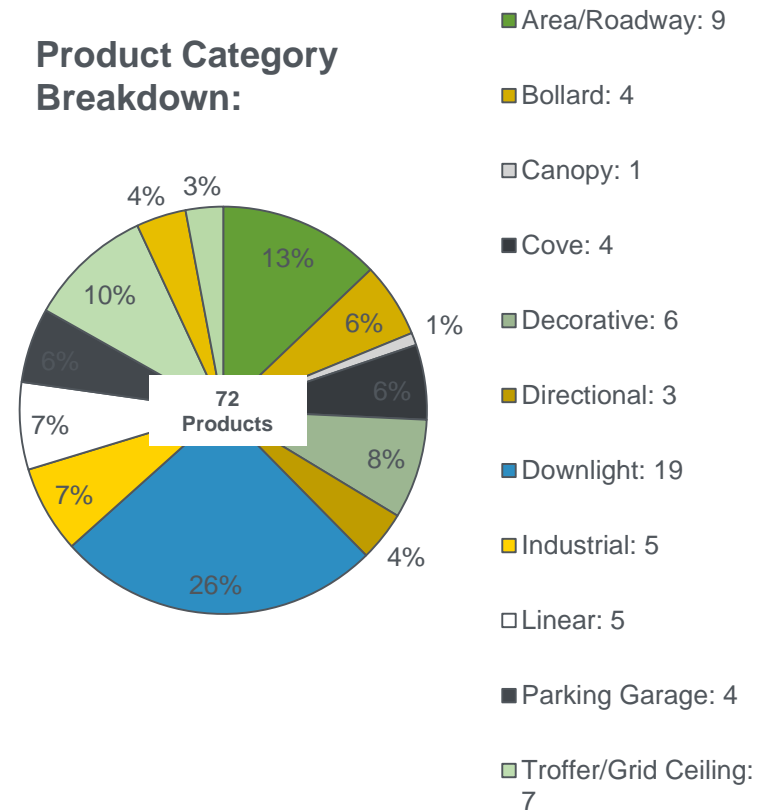
- **Over 41,000 products listed, from each available product category** *(plus 10K archived!)*
 - 2,000+ new products submitted
 - 65% increase in monthly submissions from 2014 to 2015
 - Over 200 products have been Verification Tested with 83% passing rate
 - Update requirement every 12 months
- **2,126 partners substantiate the program value**
 - Includes 1,300 manufacturers, 120 approved testing labs
 - 20-30 new manufacturers added every month
- **Steadily growing website use**
 - 115,000 visits, 70,000 users in 2015
 - 25% annual increase in traffic

Keeping Pace with Changing Market



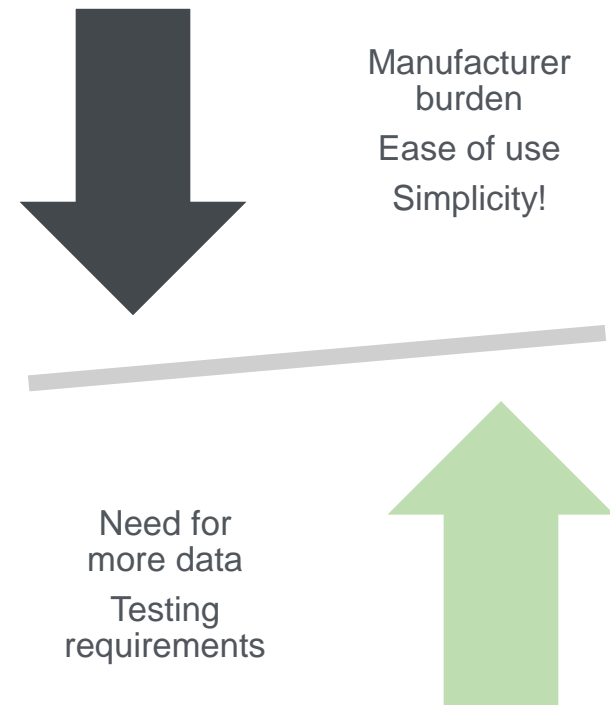
- 72 products registered via LED Lighting Facts for the 2016 indoor and outdoor NGL Competitions
- LED Lighting Facts verifies documentation for NGL entries
 - LM-79
 - ISTMT/TM-21 (Lumen Maintenance)
 - warranty and dimming claims
 - TM 30 (new)
- LED Lighting Facts leveraged NGL entries to “test” expanded metrics for color, optics, controls, flicker.

Product Category Breakdown:



- #1 Goal: Maintain robust database of current and complete information about LED product performance
 - Expand data collection for searchability by ease of use and automation
 - Ensure the accuracy and confidence in the data
 - Capture more/accurate data directly from test/calculator sources
 - Continue Verification Testing for compliance with listing policies
 - Increase regular product updates and reviews

The LED Lighting Facts Balance



New: Expanded Metrics and Data

- Streamlined product submission process to collect more data per product
 - New lab module for submissions facilitates more data per product
- TM-30 color metrics and vector graphics
- IES file reader for light distribution data
- More info/data specific to driver, optics, controls, flicker
- Product photos, OLED category

The image displays two overlapping screenshots of a web-based product submission form for the U.S. Department of Energy's Energy Efficiency & Renewable Energy program. The top screenshot shows the 'Light Distribution' tab, which includes a 'Light Output, Wattage and Efficacy' section with 'Tested Value' and 'Listed Value' input fields. Below this is an 'IES File' section with a '+ Click Here to Add a File' button. The bottom screenshot shows the 'Color Characteristics' tab, featuring a 'TM-30 Calculator' section with a '+ Click Here to Add a File' button. This tab also includes input fields for 'CRI (Ra)', 'CCT (K)', 'Duv', and 'R9', as well as a 'Color Coordinates' section with input fields for x, y, u, v, u', and v'.

Light Distribution (* indicates required field)

Light Output, Wattage and Efficacy claims must be from the same test equipment (either Integrating Sphere or Goni photometer).

Tested Value Listed Value

Light Output *

IES File
Form will auto-populate appropriate distribution data. Must be valid .ies file type. + Click Here to Add a File

Zonal lumen density (0-60°) %

Zonal lumen density (60-90°) %

Zonal lumen density (90-120°) %

Zonal lumen density (120-180°) %

Color Characteristics (* indicates required field)

TM-30 Calculator
Only official IES TM-30 calculators are accepted. Rf and Rg fields will appear and auto-populate after upload is parsed. You may download the calculator [here](#); basic or advanced version accepted (must be XLS, XLSX, or XLSM). + Click Here to Add a File

Tested Value Listed Value

CRI (Ra) *

CCT (K) *

Duv Example: 0.002

R9

Color Coordinates

x y

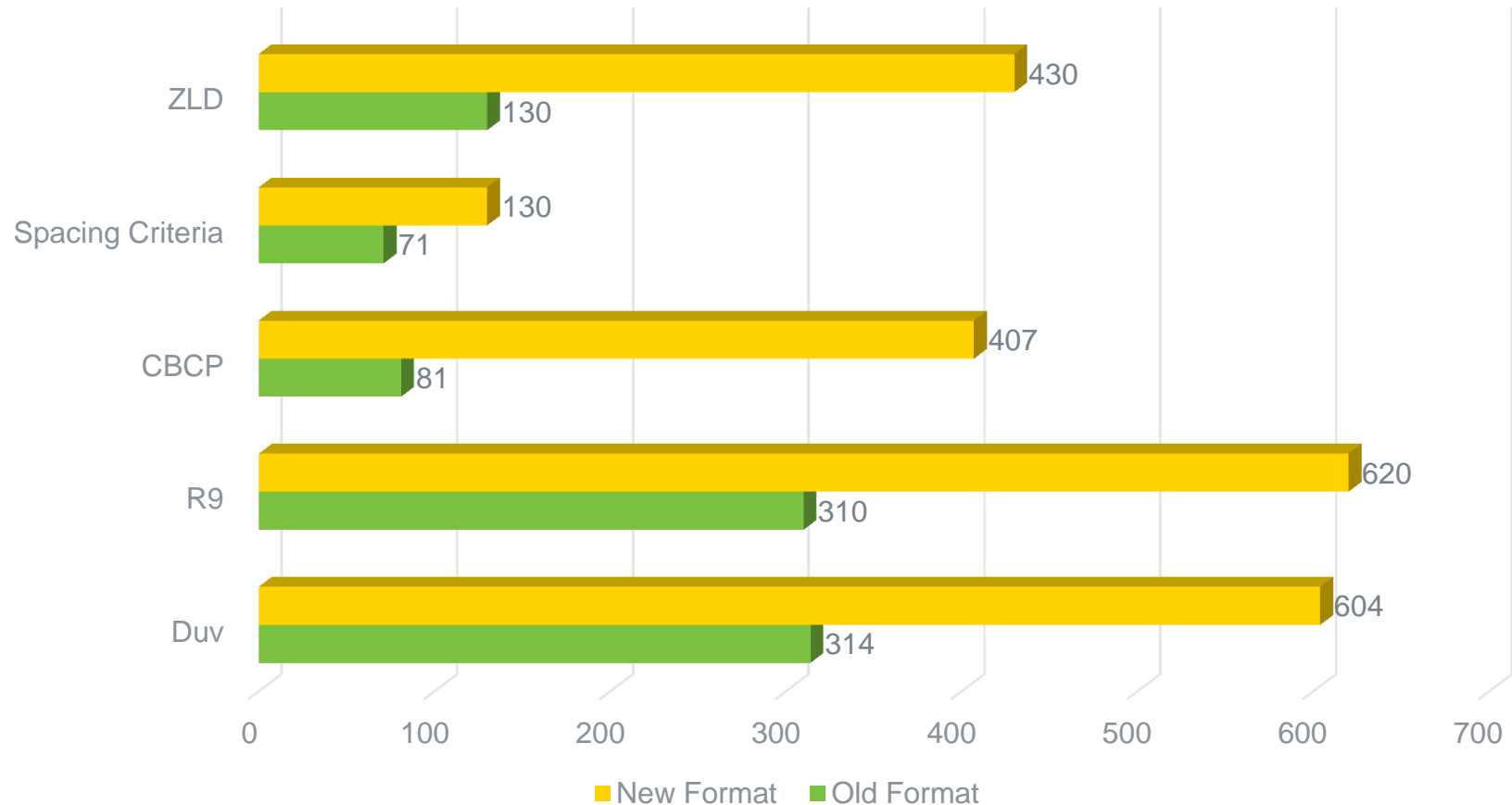
u v

u' v'

- Improve and expand user experiences
 - Focus on lighting specifiers who have significant influence on product innovation and design
- Provide greater analytics capabilities
 - *New:* download spreadsheet filters from search results
 - Advanced user tools and dynamic graphics/visuals that provide context for trends

The collage displays four screenshots of the 'LightingFacts-Products-LightingFacts-Products-2016-04-21 - Excel' application. The top screenshot shows the 'LED LightingFacts Products - Search Results' tab, which includes a table of product data with columns for Manufacturer, Brand, Model Number, Light Output, Watts, Efficacy, CRI, CCT, and Light. The second screenshot shows the 'LED LightingFacts Search Parameters' tab, featuring a table of search criteria and a 'Downloaded On' field. The third screenshot shows the 'Refining Your Results' tab, which includes a 'Filter Results' button and a 'Matching Products: 0' indicator. The bottom screenshot shows the 'Refine Results Summary' tab, which includes a table of search results and a 'Search Manufacturer By' field.

Comparison of data pre/post new submission process



New Specifier Filtering Tool (pilot version)

The Specifier Tool was designed to help lighting specifiers search and filter products from the LED Lighting Facts database *and* manage lighting projects. Using the pilot version, specifiers can now:

- Create a customized workspace that saves project details with associated products, accessible to associates in same firm
- Filter the LED LF database for “vital information”, filter search results using download xlsx format and save selected products to a project or to your “favorites” list
- Create filtering “tags” that associate products to projects
- Communicate directly with manufacturers with product questions (once manufacturer authorizes LED Lighting Facts to provide access)
- Add notes about products or projects that are time-stamped and can be shared across your organization

- More features and functionality are coming soon:
 - Data Output
 - Customized spec sheet
 - Download of project specifications
 - Comparison of highest/best product performance within a project
 - Quick view of the tagged and favorites lists with xlsx download
 - ??
 - Product and Project Search capability:
 - Integration of product search directly from a project
 - Search and view products by tags and favorites
 - ??
 - User Management
 - New specifier partner access (will require partners to sign pledge)
 - Improved mobile layout
 - ??